

 <b>AIR RESOURCES BOARD</b>	IVECO N.V.	<b>EXECUTIVE ORDER U-R-015-0033-1</b> New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2003	3VEXL03.9DTA	3.9	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter			Loader, Tractor, Dozer and Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ KW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT	--	--	6.2	0.7	0.28	15	7	42

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

This Executive Order hereby supersedes Executive Order U-R-015-0033 dated May 29, 2002.

Executed at El Monte, California on this 18<sup>TH</sup> day of June 2002.



Allen Lyons, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

U-R-015-0033-1

ATTACHMENT Pg 1 of 1

Manufacturer: IVECO N.V.  
 Engine category: Nonroad CI  
 EPA Engine Family: 3VEXL03.9DTA  
 Mfr Family Name: F4BE0484  
 Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque Device Per SAE J1930	9.Emission Control
N/A	F4BE0484H*D	121 @ 2000	100	N/A	369 @ 1400	111	N/A	EM. SPL. TAA, CAC
N/A	F4GE0684C*D	173 @ 2300	83	N/A	487 @ 1400	98	N/A	EM. SPL. TAA
N/A	F4GE0684F*D	148 @ 2000	80	N/A	515 @ 1400	104	N/A	EM. SPL. TAA
N/A	F4GE0684E*D	161 @ 2300	78	N/A	487 @ 1400	98	N/A	EM. SPL. TAA
N/A	F4GE0684G*D	143 @ 2300	69	N/A	487 @ 1400	98	N/A	EM. SPL. TAA
N/A	F4CE0684C*D	114 @ 2200	59	N/A	384 @ 1400	78	N/A	EM. SPL. TAA
N/A	F4BE0484E*D	117 @ 2000	95	N/A	332 @ 1400	101	N/A	EM. SPL. TAA
N/A	F4GE0484C*D	126 @ 2300	92	N/A	332 @ 1400	101	N/A	EM. SPL. TAA
N/A	F4BE0484F*D	118 @ 2200	89	N/A	332 @ 1400	108	N/A	EM. SPL. TAA
N/A	F4GE0484G*D	110 @ 2200	83	N/A	332 @ 1400	100	N/A	EM. SPL. TAA
N/A	F4CE0484B*D	99 @ 2200	76	N/A	321 @ 1400	97	N/A	EM. SPL. TAA
N/A	F4GE0484E*D	119 @ 2000	97	N/A	355 @ 1400	108	N/A	EM. SPL. TAA